

JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

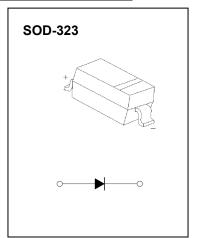
SOD-323 Plastic-Encapsulate Diodes

BAT42WS/BAT43WS SCHOTTKY BARRIER DIODE

FEATURES

Low Forward Voltage Drop Fast Switching Time Surface Mount Package Ideally Suited for Automatic Insertion Also Available in Lead Free Version

MARKING: BAT42WS S7 BAT43WS S8



Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25℃

Parameter	Symbol	Limit	Unit
Peak Repetitive Peak Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	30	V
DC Blocking Voltage	V_{R}		
RMS Reverse Voltage	$V_{R(RMS)}$	21	V
Forward Continuous Current	I _{FM}	200	mA
Repetitive Peak Forward Current @t<1.0s	I _{FRM}	500	mA
Peak Forward Surge Current @t<10ms	I _{FSM}	4.0	Α
Power Dissipation	Pd	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	°C/W
Junction temperature	TJ	125	$^{\circ}$
Storage Temperature	T _{STG}	-55~+150	°C

Electrical Ratings @Ta=25℃

Parameter		Symbol	Min	Тур	Max	Unit	Conditions
Reverse breakdown voltage		V _(BR)	30			V	I _R =10μA
Forward voltage	BothTypes	V _F			1.0	V	I _F =200mA
	BAT42WS	V _F			0.4	V	I _F =10mA
	BAT42WS	V_{F}			0.65	V	I _F =50mA
	BAT43WS	V _F	0.26		0.33	V	I _F =2mA
	BAT43WS	V _F			0.45	V	I _F =15mA
Reverse current		I _R			0.5	μA	V _R =25V
Capacitance between terminals		Ст			10	pF	V _R =1.0V,f=1.0MHz
Reverse recovery time		t _{rr}			5	ns	$I_F=I_R=10$ mA $Irr=0.1$ X I_R , $R_L=100$ Ω

Typical Characteristics

BAT43WS

